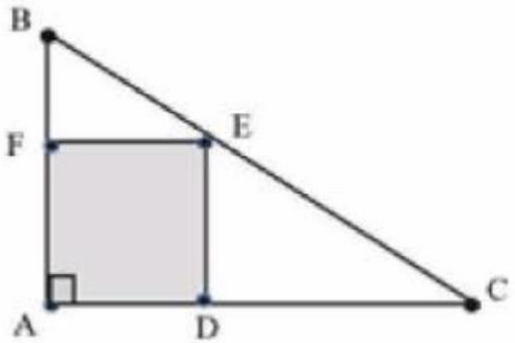
koolearn
新东方在线

SAT数学

张斯乐

4.5 Geometry

1.



Note: Figure not drawn to scale

In the figure above, ABC is a right triangle and $2AC = 3AB$. If the quadrilateral $AFED$ is a square, the area of the shaded region is what fraction of the area of triangle ABC?

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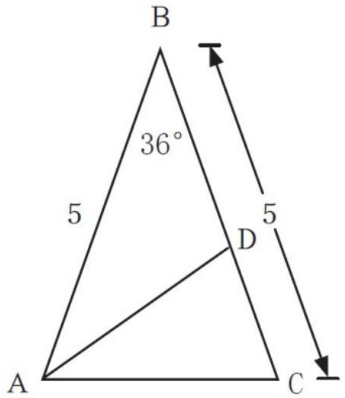
2.



For isosceles triangle ABC shown above, AB = BC = 5 and the measure of angle ABC is 36°. If∠ BAC is bisected by $\overline{AD}$, which of the following statements must be true?

A) AB = AC =BC
B) AD=BD=AC
C) BD = CD = AC
D) AB = BD = AD

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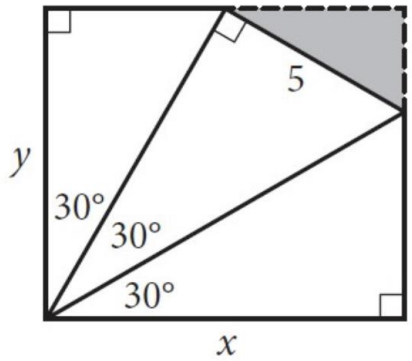
3.



The figure above shows that the shaded triangular region with a hypotenuse of 5 centimeters (cm) has been removed from a rectangular tile with dimensions x cm by y cm. Of the following, which best approximates the area, in square centimeters, of the tile before the piece was removed?

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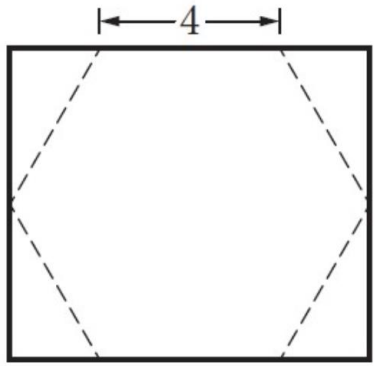
4.



Thomas is making a sign in the shape of a regular hexagon with 4-inch sides, which he will cut out from a rectangular sheet of metal, as shown in the figure above. What is the sum of the areas of the four triangles that will be removed from the rectangle?

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Thanks

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